

The Social Life of Data
@erinmaochu #rfringe16

The importance of Repositories

- ▶ Compliance with Funders
- ▶ Impact (including demonstrating impact)
- ▶ Collaboration
- ▶ Reuse
- ▶ Accelerating the research and educational lifecycles
- ▶ Reproducibility
- ▶ Recognition of the data creators
- ▶ Citizen science and broadening participation
- ▶ Industrial engagement

Repository
Fringe 2016

Vote for your favourite
poster at:

<http://bit.ly/2a6TCBZ>



Black women creatives

From Wikipedia, the free encyclopedia

It is **proposed that this article be deleted** because of the following concern:

Wikipedia is not for advocacy of causes, no matter how worthy. Please see [WP:SOAPBOX](#) and [WP:ADVOCACY](#).

Wikipedia articles may only report on matters of fact, from a [neutral point of view](#).

If you can address this concern by [improving](#), [copyediting](#), [sourcing](#), [renaming](#), or [merging](#) the page, **please edit this page** and do so. *You may remove this message if you improve the article or otherwise object to deletion for any reason.* Although not required, you are encouraged to explain why you object to the deletion, either in your edit summary or on the talk page. If this template is removed, **do not replace it**.

The article may be deleted if this message remains in place for seven days, i.e., after 10:22, 8 August 2016 (UTC).

If you created the article, please don't be offended. Instead, consider improving the article so that it is acceptable according to the [deletion policy](#).

Nominator: Please consider notifying the author/project: {{subst:proposed deletion notify|Black women creatives|concern=Wikipedia is not for advocacy of causes, no matter how worthy. Please see [[WP:SOAPBOX]] and [[WP:ADVOCACY]]. Wikipedia articles may only report on matters of fact, from a [[WP:NPOV|neutral point of view]].}} ~~~~

Black women are missing from representation in the creative industries, from academia and more importantly they are missing as creatives and as pioneers or leaders in these fields. This article puts a spotlight on black women creatives across a range of disciplines from around the globe.

https://en.wikipedia.org/wiki/Wikipedia:Wikiproject:_Black_Women_Creatives

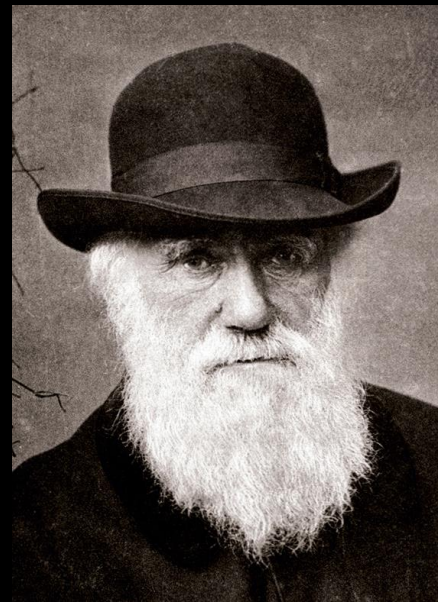
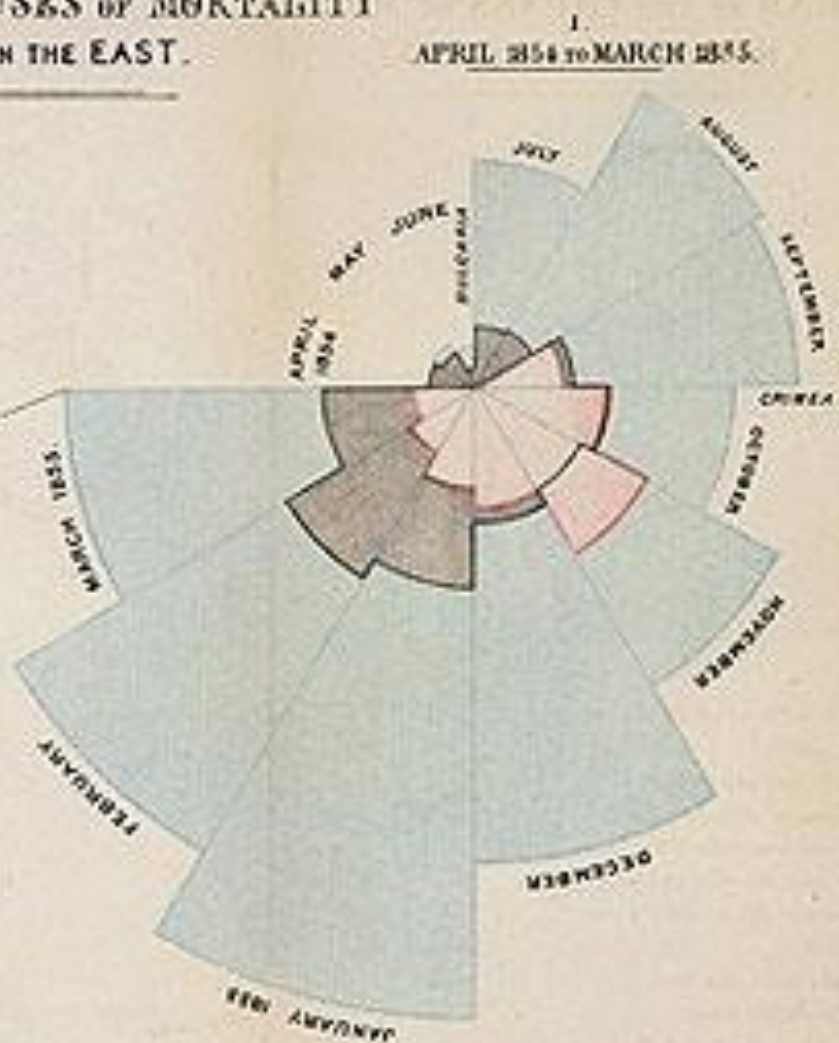
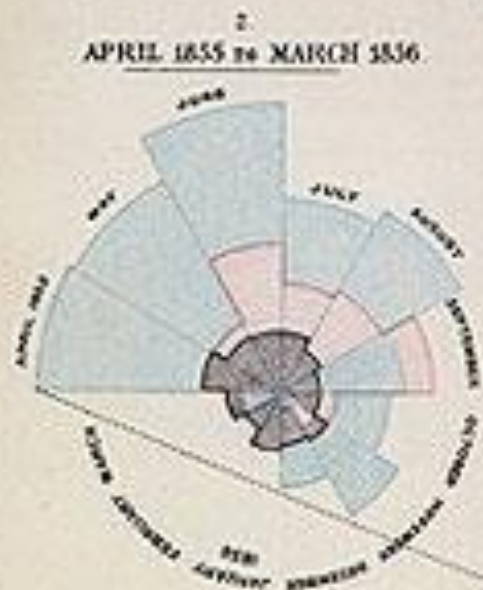


Image credit: <http://www.openscientist.org/p/citizen-science-for-your-phone.html>

DIAGRAM OF THE CAUSES OF MORTALITY IN THE ARMY IN THE EAST.



The areas of the blue, red, & black wedges are each measured from the centre as the common vertex.

The blue wedges measured from the centre of the circle represent area for area the deaths from Preventable or Mitigable Zymotic diseases, the red wedges measured from the centre the deaths from wounds, & the black wedges measured from the centre the deaths from all other causes.

The black line across the red triangle in Nov^r 1854 marks the boundary of the deaths from all other causes during the month.

In October 1854, & April 1855 the black area overlaps with the red, in January & February 1855 the blue overlaps with the black.

The entire areas may be compared by following the blue, the red & the black lines enclosing them.

Level 4 'Extreme Citizen Science'

- Collaborative science – problem definition, data collection and analysis

Level 3 'Participatory science'

- Participation in problem definition and data collection

Level 2 'Distributed Intelligence'

- Citizens as basic interpreters
- Volunteered thinking

Level 1 'Crowdsourcing'

- Citizens as sensors
- Volunteered computing



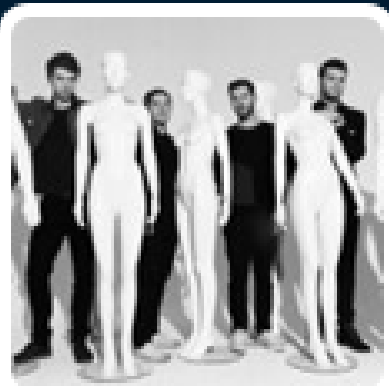
Share your catchiest tune
#hookedplaylist

A medium shot of two men sitting side-by-side in what appears to be a home office or studio. The man on the left has light brown hair and a mustache, wearing a dark blue button-down shirt. The man on the right has dark hair and a mustache, wearing a bright blue V-neck t-shirt. They are both looking directly at the camera with neutral to slightly smiling expressions. The background is a light-colored wall with several framed posters, including one of a green alien-like creature. To the right, a computer monitor is visible on a desk, displaying a colorful abstract image. The lighting is soft and even.

mobro.co/asapscience



www.hookedonmusic.org.uk



TWEETS
5,234

FOLLOWING
4,499

FOLLOWERS
55K



Following

EverythingEverything ✓

@E_E_

A band. LPs 'Man Alive' bit.ly/1aATUMV & 'Arc' out now: smarturl.it/arc

Manchester, UK · everything-everything.co.uk



Followed by Rise Of Neon, JadeWright, NME and 34 others.



EverythingEverything @E_E_ · 5m

A great free game which has the added benefit of helping with some important research. Have a go. [#HookedOnMusic](https://hookedonmusic.org.uk)

hookedonmusic.org.uk

Details



TWEETS
16.6K

FOLLOWING
1,194

FOLLOWERS
14.9K



 Follow

Craig Potter 

@CraigLPotter

elbow keys/producer/mixer

Manchester, UK



Followed by Jon Drape, Bec Lupton, Stanley Chow and 29 others.



Craig Potter @CraigLPotter · 24m

Check this out. Play it and help out! hookedonmusic.org.uk Using music to help beat Alzheimer's. Pls RT

[Details](#)



coldplayzone.it @coldplayzoneit · Jun 6

@coldplay please guys support out mutual friend @CraigLPotter to defeat Alzheimer together!



[Details](#)



sharonb @spannermagnet · Jun 6

@CraigLPotter this is ace :-)



[Details](#)



Andy Hall @andycity1973 · Jun 6

@CraigLPotter s'good innit



[Details](#)



MissKatieK2012 @KateKilgannon · Jun 6

"@CraigLPotter: Check this out. Play it and help out! hookedonmusic.org.uk Using music to help beat Alzheimer's. Pls RT" #ff



[Details](#)



hellen pijls @hepij · Jun 6

@CraigLPotter done! Let's do it all and fight it!



[Details](#)







#HOOKEDONMUSIC STATS

Media Reach: 228, 000, 000

Live events: 4000 people

175,000 players - played 255,000 times

102,000 played >10 secs

80,000 power players > 1 minute

60,000 power players > 601 secs

The Lancet

“This project can be commended for teaming up public engagement, using popular accessible and accessible platforms, with scientific discovery, encouraging widespread interest in responding to a critical threat of the devastation caused by dementia...”

em·pa·thy

noun \ 'em-pə-thē \

the action of understanding, being aware of, being sensitive to, and vicariously experiencing the feelings, thoughts, and experience of another

Social vs scientific value



Community Building

Awareness & Stewardship

Recognition of citizen participation

Cost effectiveness

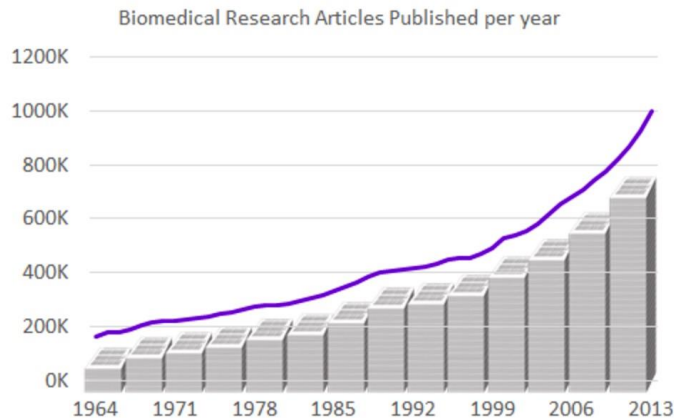
Improved productivity

Quality assurance measures

Maintaining engagement

Making best use of data

What is Mark2Cure?



You can help them by identifying key pieces of information in scientific text.

Mark2Cure allows **anyone that can read English**, regardless of background, to help in the process of biomedical discovery.

Scientific literature is **growing** at a rate of more than 2 new articles every single minute. It is hard for scientists to know what to read and to read everything that is relevant.

This allows **researchers** to find the **information** they need more **efficiently** **enabling** them to move more **quickly** to identify new **cures**.

<https://mark2cure.org>



www.turingsunflowers.com

1. Crowdsource number patterns in nature dataset
2. Engage 3000 people from Greater Manchester
3. Learn about Turing & how number patterns work in sunflowers
4. Provide a media story

Turing's Sunflowers



MANCHESTER
SCIENCE FESTIVAL
27 Oct - 4 Nov '12



MANCHESTER
1824

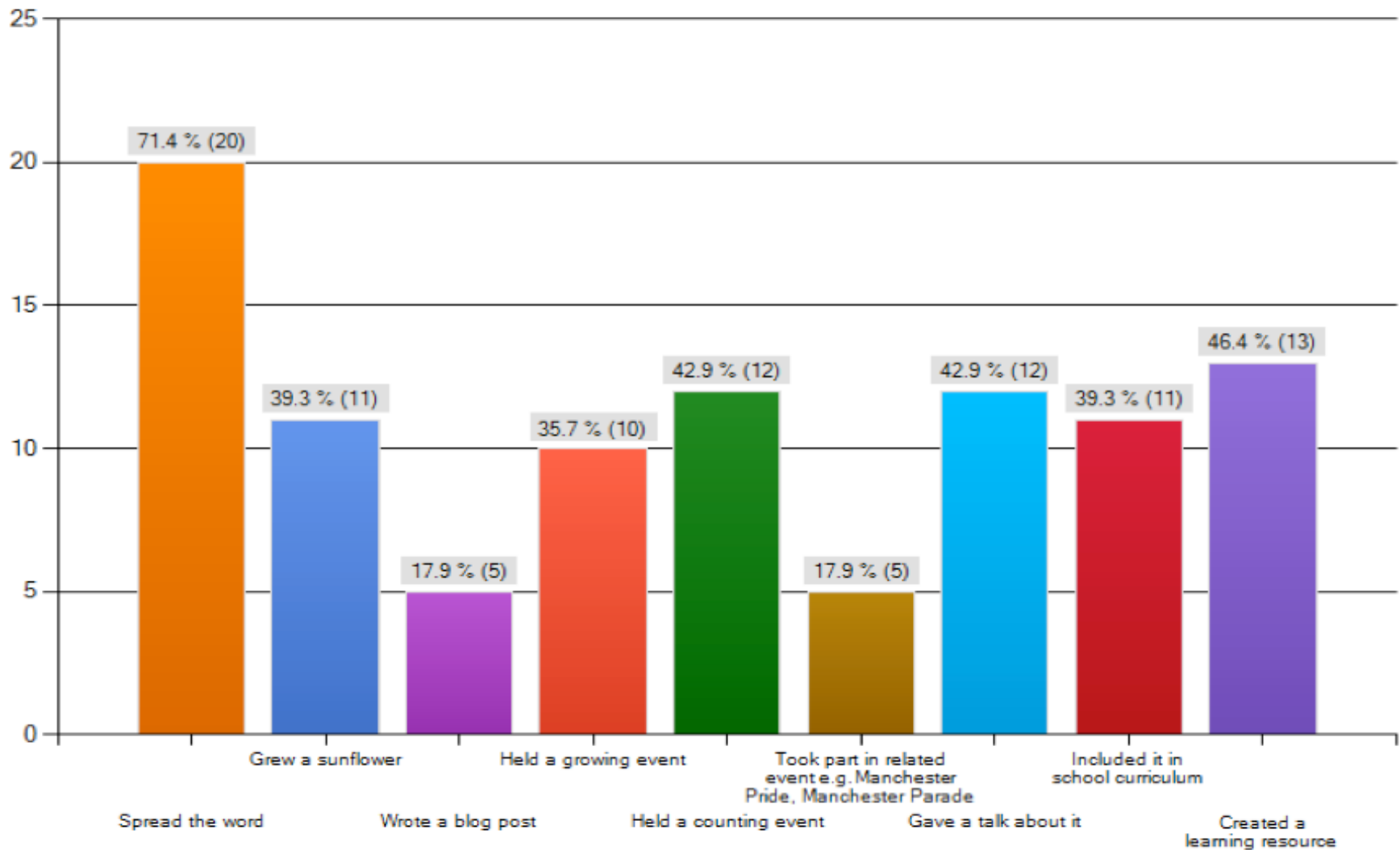
The University of Manchester



MANCHESTER
CITY COUNCIL



What did people do?





📌 **Novel Fibonacci and non-Fibonacci structure in the sunflower: results of a citizen science experiment**

Jonathan Swinton, Erinma Ochu, The MSI Turing's Sunflower Consortium

Published 18 May 2016. DOI: [10.1098/rsos.160091](https://doi.org/10.1098/rsos.160091)







creativetourist.com





Please note: Growing locations have been anonymised and point to the centre of a postcode area, not exact locations.

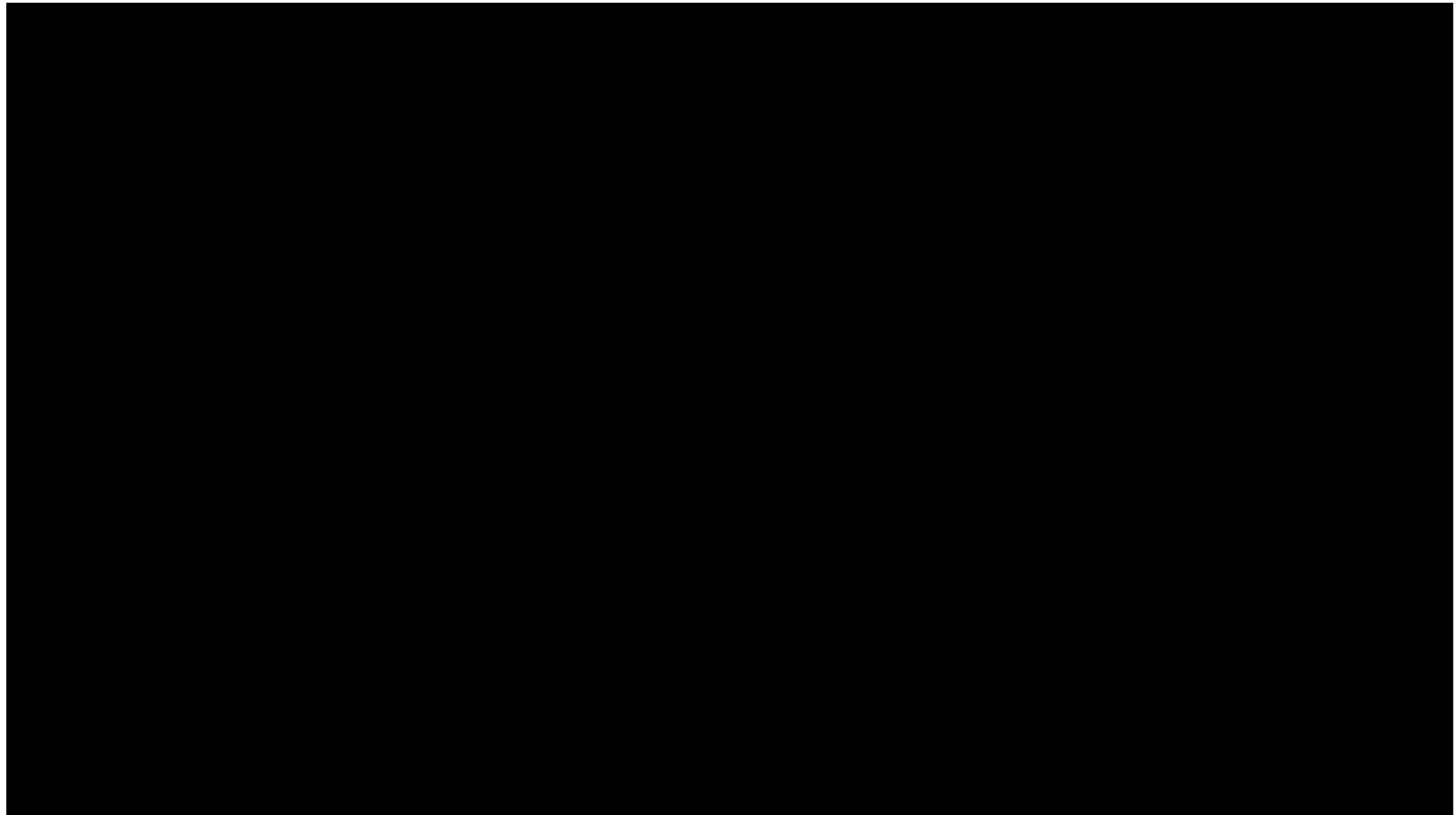


European
City of Science
Manchester 2016

#robotsarecoming



The University of Manchester



www.robotorchestra.co.uk

SIEMENS EPSRC

Trumpet in E

FANFARE - THE ROBOTS ARE COMING!

The Robot Orchestra Project - after John Adams - NONET VERSION

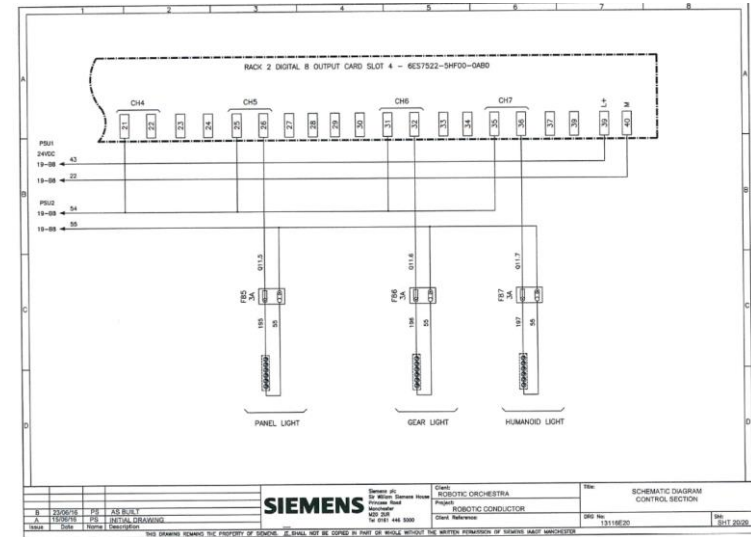
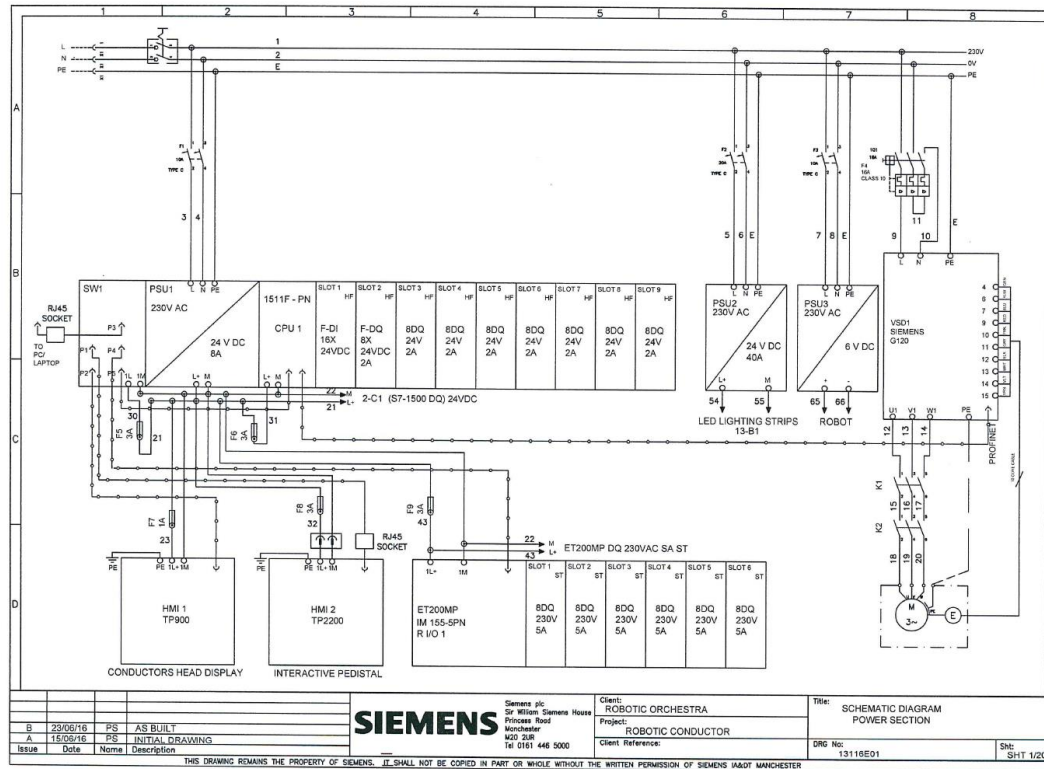
Tempo giusto 1/4 = 144

Slowly

A musical score for a trumpet part. The score is written on five staves. The first staff begins with a treble clef, a key signature of one sharp (F#), and a 2/4 time signature. The tempo is marked 'Tempo giusto' with a metronome marking of 1/4 = 144. The music features a series of eighth and sixteenth notes, with some measures containing beamed sixteenth notes. Dynamics include 'f' (forte) and 'pp' (pianissimo). The score is part of a larger work titled 'FANFARE - THE ROBOTS ARE COMING!' by 'The Robot Orchestra Project - after John Adams - NONET VERSION'. The page is numbered '1' in the top right corner. The background shows a person in a blue shirt and a smartphone on a table.



European City of Science Manchester 2016



SIEMENS



European
City of Science
Manchester 2016

MANCHESTER
1824

The University of Manchester

	A	E	F	G	H	I	J	K	L
1	Currently Coded for 23 Relays	(6) (5) (4) (3) (2) (1)			If adding new robot change binary summation cell with additional row, in correct position (you can drag the cell)				
2		1							
3		1	2	3	4	5	6	7	8
4	Hexidecimal code	16#547CFF	16#1B1074	16#145C74	16#5B9074	16#147C74	16#5A9034	16#145834	16#199434
5	Binary Code	10101000111110011	00110110001000001	00101000101110001	10110111001000001	00101000111110001	10110101001000000	00101000101100000	00110011001010000
6									
7	GLOCK-O-BOT	1	0	0	0	0	0	0	0
8	SPIDERBOT	1	0	0	0	0	0	0	0
9	CONGLEBOT	1	1	1	1	1	1	1	1
10	BRICKBOT	1	0	0	0	0	0	0	0
11	PIANO BOT	1	1	1	1	1	1	1	1
12	BEATS BY BOWKER	1	1	1	1	1	1	1	1
13	BEATS BY BOWKER 2	1	1	1	1	1	0	0	0
14	DEXTERBOT	1	0	0	0	0	0	0	0
15	TRAM LIGHT	0	0	0	0	0	0	0	0
16	DR GLOCK	0	0	0	0	0	0	0	0
17	FELIXATRON	1	0	1	0	1	0	0	1
18	WILL'S WOODBLOCK	1	0	1	0	1	0	1	0
19	ROCK-N-ROLL BOT	1	1	1	1	1	1	1	1
20	PLANT-POT-BOT	1	0	0	0	1	0	0	0
21	BREAKFASTBOT G	1	0	1	0	1	0	1	0
22	BREAKFASTBOT D	0	0	0	1	0	1	0	1
23	BREAKFASTBOT E	0	1	0	1	0	0	0	1
24	BREAKFASTBOT Bb	0	1	0	1	0	1	0	0
25	BREAKFASTBOT C	1	0	1	0	1	0	1	0
26	RODEHEATH	0	1	0	1	0	1	0	1
27	ROBO DRUMMER	1	1	1	1	1	1	1	1
28	CELLOBOT	0	0	0	0	0	0	0	0
29	TAMBORINE	1	0	0	1	0	1	0	0

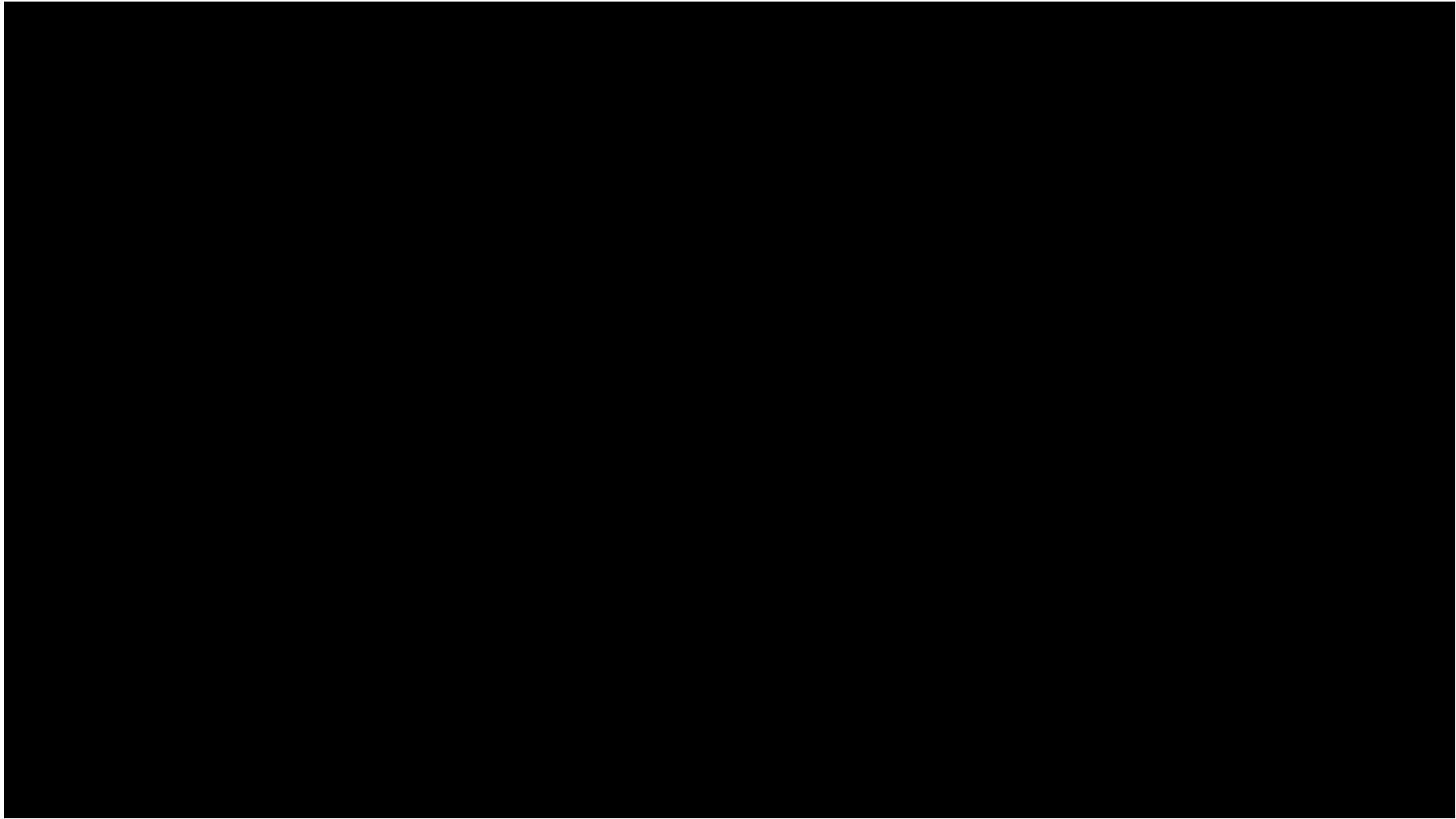
SIEMENS EPSRC



European
City of Science
Manchester 2016



The University of Manchester





European
City of Science
Manchester 2016





European
City of Science
Manchester 2016



The Future

NEXT EXIT 

Social Life of Repositories?

- Be discoverable?
- Facilitate community building?
- Recognise range of contributions?
- Facilitate teaching and learning?
- Encourage action and change?
- Capture impact over time?

Eyewire



PLAY NOW

*Collaborate and compete
unlock achievements for science*



Join Now

<http://eyewire.org/explore>

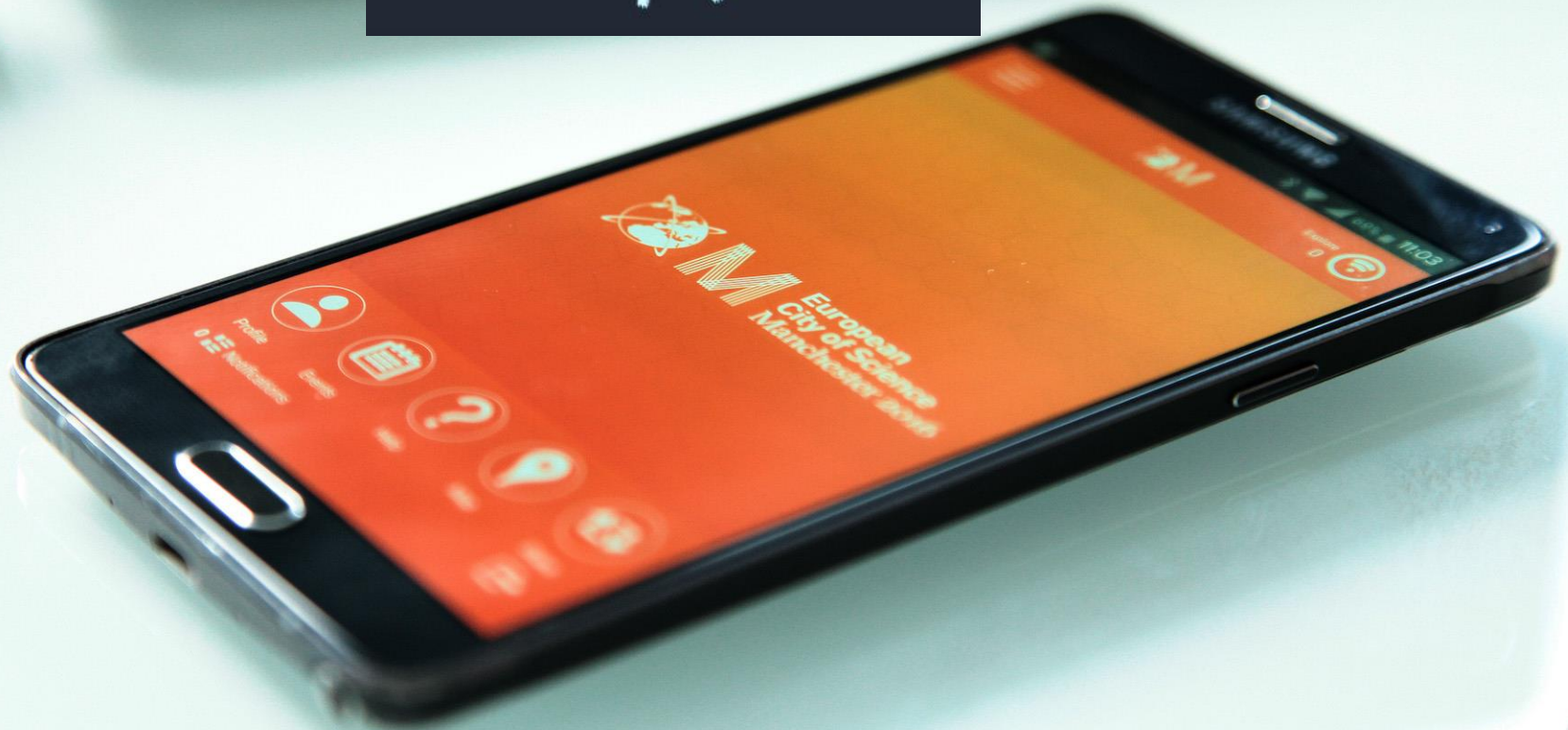
Top Daily Score Leaderboard



RANK	PLAYER	SCORE	DATE
1	@a5hm0r	74,913	Mar 24, 2013
2	@crazyman4865	70,971	Mar 23, 2013
3	@diizeiaj	52,370	Mar 24, 2013
4	@buc0	40,272	Feb 24, 2013
5	@andrewb	40,057	Feb 23, 2013
6	@a5hm0r	37,872	Mar 21, 2013
7	@aafenton	35,010	Feb 20, 2013
8	@vaeltaya	34,030	Dec 29, 2012
9	@a5hm0r	33,333	Mar 23, 2013
10	@a5hm0r	33,222	Mar 16, 2013







<http://bit.ly/2aLpMGO>

Innovative communication



OUR LEARNING

Meet the projects...



Guns into Goods

Inspired by the Salford scientist James Joule, this workshop demonstrated what happens to various objects when an electric current is passed through them and how they can be transformed into new products. The audience then created badges inspired by melted down guns.

More on [flickr](#)





<http://www.notesonblindness.co.uk>

<https://player.vimeo.com/video/171936282>

<http://www.notesonblindness.co.uk/vr/>

New Dimensions in Testimony

☐ MINE

☐ YOURS

☒ OURS

Ethical challenges

1. Partnership, collaboration and power
2. Blurring the boundaries between researcher and researched, academic and activist
3. **Community rights, conflict and democratic representation**
4. **Ownership and dissemination of data, findings and publications**
5. **Anonymity, privacy and confidentiality**
6. Institutional ethical review processes

Doing It Together Science (DITOS)

People contribute to science at a level of participation suitable for them... crowdsourcing app to logging air quality to working in a citizen bio hacking lab.

This includes planning and coordinating the project's legacy in terms of intellectual property, innovations management, knowledge transfer and ownership of assets.

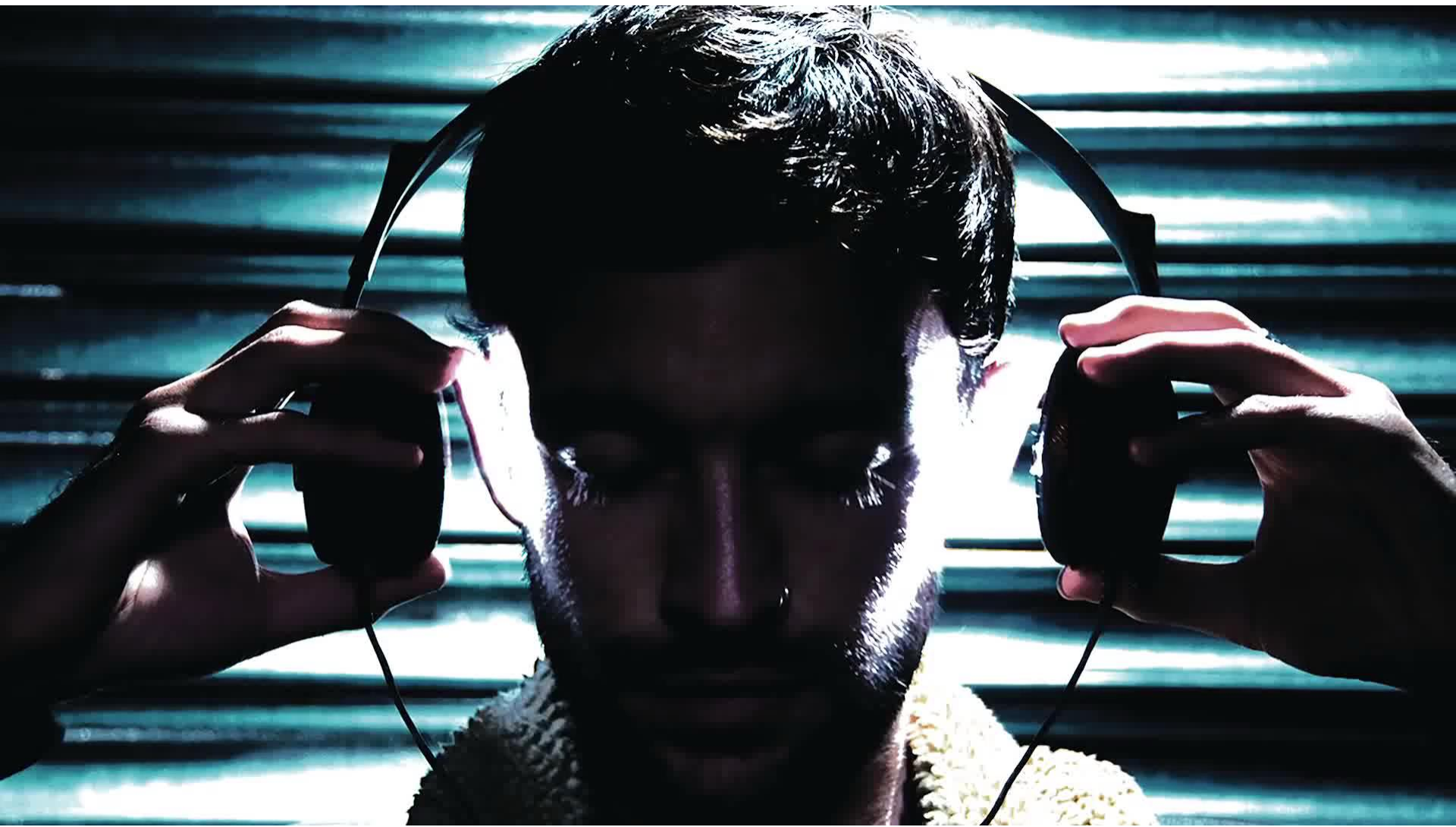
<http://togetherscience.eu/>







www.farmlab.org.uk



References

Haklay M (2013) Citizen science and Volunteered Geographic Information. Crowdsourcing Geographic Knowledge. Berlin: Springer 105 - 122

Osborne H (Ed.) The Oxford Companion to the decorative Arts. Clarendon Press, Oxford, 1975, pp. 293-297

Roy, H.E., Pocock, M.J.O., Preston, C.D., Roy, D.B., Savage, J., Tweddle, J.C. & Robinson, L.D. (2012) Understanding Citizen Science & Environmental Monitoring. Final Report. NERC Centre for Ecology & Hydrology and Natural History Museum on behalf of UK-EOF. 175pp
http://www.ceh.ac.uk/news/news_archive/citizen-science-review-guide_2012_59.html

Frietag, A, Pfeffer, M.J. (2013) Process, not product: Investigating Recommendations for improving Citizen Science "Success". PLoS ONE 8(5): e64079. doi:10.1371/journal.pone.0064079

Burgoyne JA et al (2013) Hooked: A game for discovering what makes music catchy. ISMIR p245-250

Banks, S. (et al) (2013) '[*Everyday ethics in community-based participatory research*](#)', in Contemporary Social Science: Journal of the Academy of Social Sciences

Fort S (2012) Independent evaluation of the Turing's Sunflower project. <http://bit.ly/ZL3sSd>

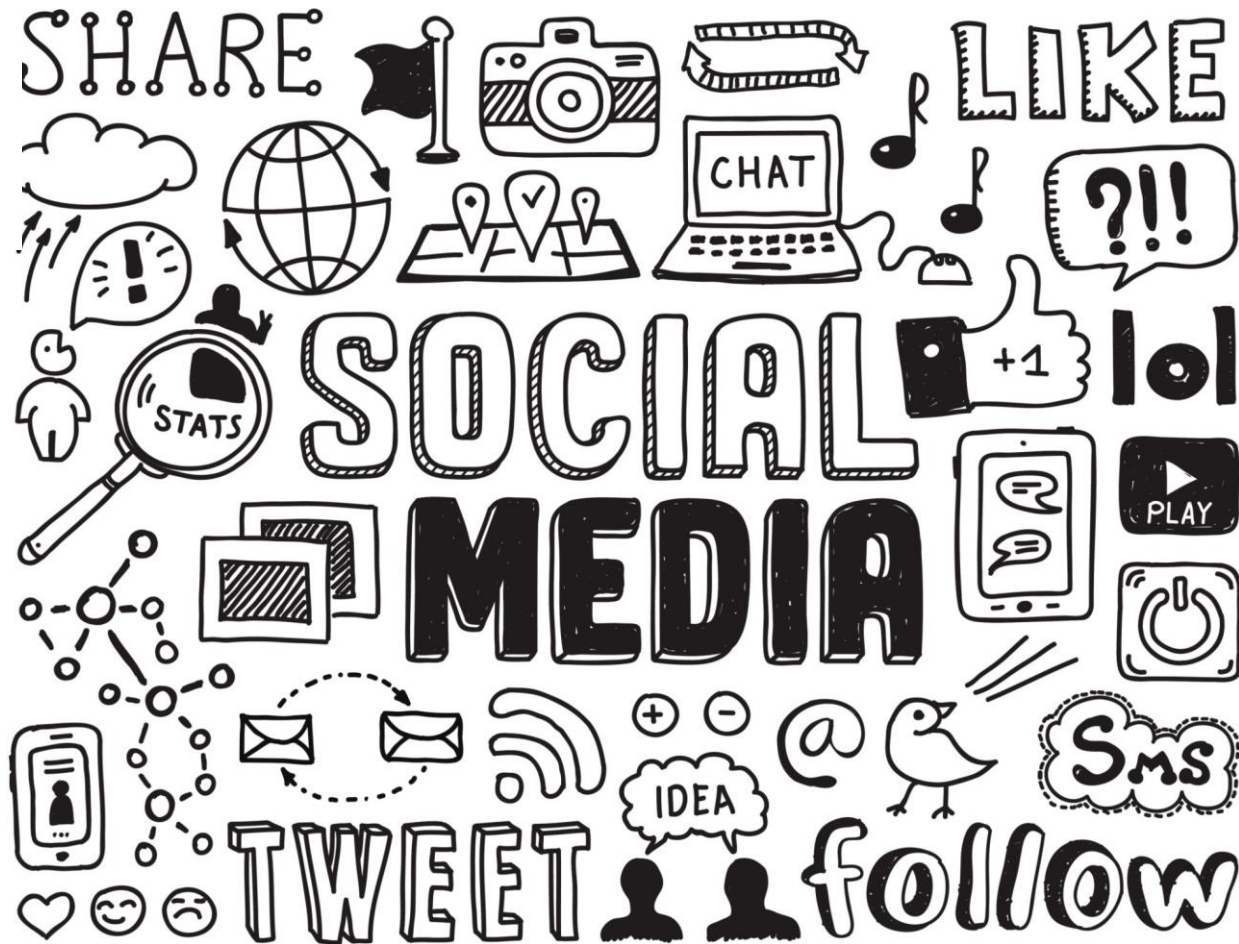
Swinton J, Ochu E and MSI Turing's Sunflowers consortium (2016) Novel Fibonacci and non-Fibonacci structure in the sunflower: results of a citizen science experiment. Royal Society Open Science vol 3 (5)

Wentworth J (2014) Environmental Citizen Science – POST Note

<http://www.parliament.uk/business/publications/research/briefing-papers/POST-PN-476/environmental-citizen-science>

Constructing Scientific communities: <http://conscicom.org>

Guantlet D (2011) Making is Connecting: The Social Meaning of Creativity, from DIY and Knitting to YouTube and Web 2.0. Polity Press



The Social Life of Data

erinmaochu@gmail.com